**Review for 7.1 & 7.2 quiz**

1. After surveying 350 adults, it was found that 283 were male, 126 snored, and 77 were male and snored.
   1. Create the table and the Venn Diagram for this scenario
   2. Find the probability that a person …
      1. Is male
      2. Does not snore
      3. Does not snore and is not male
      4. Snores and is not male
      5. Is male or snores
      6. Is not male or snores
2. Down at the boardwalk, you play a game in which a wheel is spun and there is a 28% chance of landing on the grand prize. You get to spin 3 times per game. You have enough money to play the game 6 times.
   1. Write instructions for simulating this game.
   2. Using the table of random digits below, simulate the game being played 6 times and record your results

|  |  |
| --- | --- |
| # wins | frequency |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

96710 17354 19476 14490 18696 19736 14781 51856 06867 16354 59674

09759 01020 39785 87469 07857 17654 07864 17534 76123 92765 17649

* 1. What is the average number of times you will win in each game?

1. Given a standard deck of cards, what is the probability that you will pick a …
   1. Jack or a Queen?
   2. Diamond or a 7?
   3. Face card or a Heart?
   4. Black card or a heart?
   5. Black card or a King?
2. You survey 80 students about their eye colors and find that 2 have black eyes, 31 have brown eyes, 23 have blue eyes, 14 have hazel eyes, and the rest have green eyes.
   1. Create the probability model below (list outcomes and **PROBABILITIES**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Eye Color |  |  |  |  |  |
| Probability |  |  |  |  |  |

* 1. What is the probability that a student chosen at random has …
     1. Green eyes?
     2. Brown or blue eyes?
     3. Hazel or black eyes?
     4. Blue AND green eyes?
     5. Does not have brown eyes?